AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A biosensor for determination of an analyte concentration in a test sample comprising:

a working electrode and a counter electrode;

a mixture for electrochemical reaction with an analyte, said mixture including an enzyme, a mediator, and an oxidizable species as an internal reference, the oxidizable species being different than the mediator species and having different redox potentials, said mixture being located as a single layer on at least a portion of the working electrode and the counter electrode prior to the introduction of the test sample.

- 2. (Previously Presented) The biosensor of claim 1 wherein said internal reference is a reduced form of a reversible redox couple that has a higher redox potential than that of said mediator.
- 3. (Previously Presented) The biosensor of claim 1 wherein said mediator comprises 3-phenylimino-3H-phenothiazine.
- 4. (Previously Presented) The biosensor of claim 3 wherein said internal reference comprises ferrocyanide.
- 5. (Previously Presented) The biosensor of claim 4 wherein said ferrocyanide and said mediator are oxidized at a first voltage potential and only said mediator is oxidized at a second voltage potential, said second voltage potential being less than said first voltage potential.
- 6. (Previously Presented) The biosensor of claim 5 wherein said first voltage potential is about 400 mV and said second voltage potential is about 100 mV.

- 7. (Cancelled)
- 8. (Cancelled)
- 9. (Previously Presented) The biosensor of claim 1 wherein said mediator comprises ruthenium hexamine.
- 10. (Previously Presented) The biosensor of claim 9 wherein said internal reference comprises ferrocyanide.
- 11. (Previously Presented) The biosensor of claim 10 wherein said enzyme comprises glucose oxidase.

12-20. (Cancelled)

21. (Currently Amended) A method of forming and placing a reagent mixture for an electrochemical reaction with an analyte <u>of a fluid sample</u> in a biosensor, the biosensor having a working electrode and a counter electrode, the method comprising:

forming a batch of reagent mixture by adding an enzyme, adding a mediator and adding an oxidizable species, the added oxidizable species being added separately from the mediator; and

after forming the reagent mixture, placing the reagent mixture at least partially on the working electrode and the counter electrode of the biosensor <u>prior to the introduction of the fluid sample</u>.

22. (Previously Presented) The method of claim 21 wherein said internal reference is a reduced form of a reversible redox couple that has an equal or higher redox potential than that of said mediator.

- 23. (Previously Presented) The method of claim 21 wherein said mediator comprises 3-phenylimino-3H-phenothiazine.
- 24. (Previously Presented) The method of claim 23 wherein said internal reference comprises ferrocyanide.
- 25. (Previously Presented) The method of claim 21 wherein said internal reference and said mediator are oxidized at a first voltage potential and only said mediator is oxidized at a second voltage potential, said second voltage potential being less than said first voltage potential.
- 26. (Previously Presented) The method of claim 21 wherein said internal reference and said mediator are oxidized at a first voltage potential and only said mediator is oxidized at a second voltage potential, said second voltage potential being higher than said first voltage potential.
- 27. (Previously Presented) The method of claim 21 wherein said mediator comprises ruthenium hexamine.
- 28. (Previously Presented) The method of claim 27 wherein said internal reference comprises ferrocyanide.
- 29. (Previously Presented) The method of claim 28 wherein said enzyme comprises glucose oxidase.
- 30. (Previously Presented) The method of claim 21 wherein the oxidizable species is different than the mediator species and has different redox potentials.
- 31. (Previously Presented) The method of claim 21 wherein the mediator comprises ferricyanide.

- 32. (Previously Presented) The method of claim 31 wherein the internal reference comprises ferrocyanide.
 - 33-36. (Cancelled)
 - 37. (New) The biosensor of claim 1 wherein the mixture includes only one enzyme.
- 38. (New) The method of claim 1 wherein the reagent mixture includes only one enzyme.